

FIG. 1

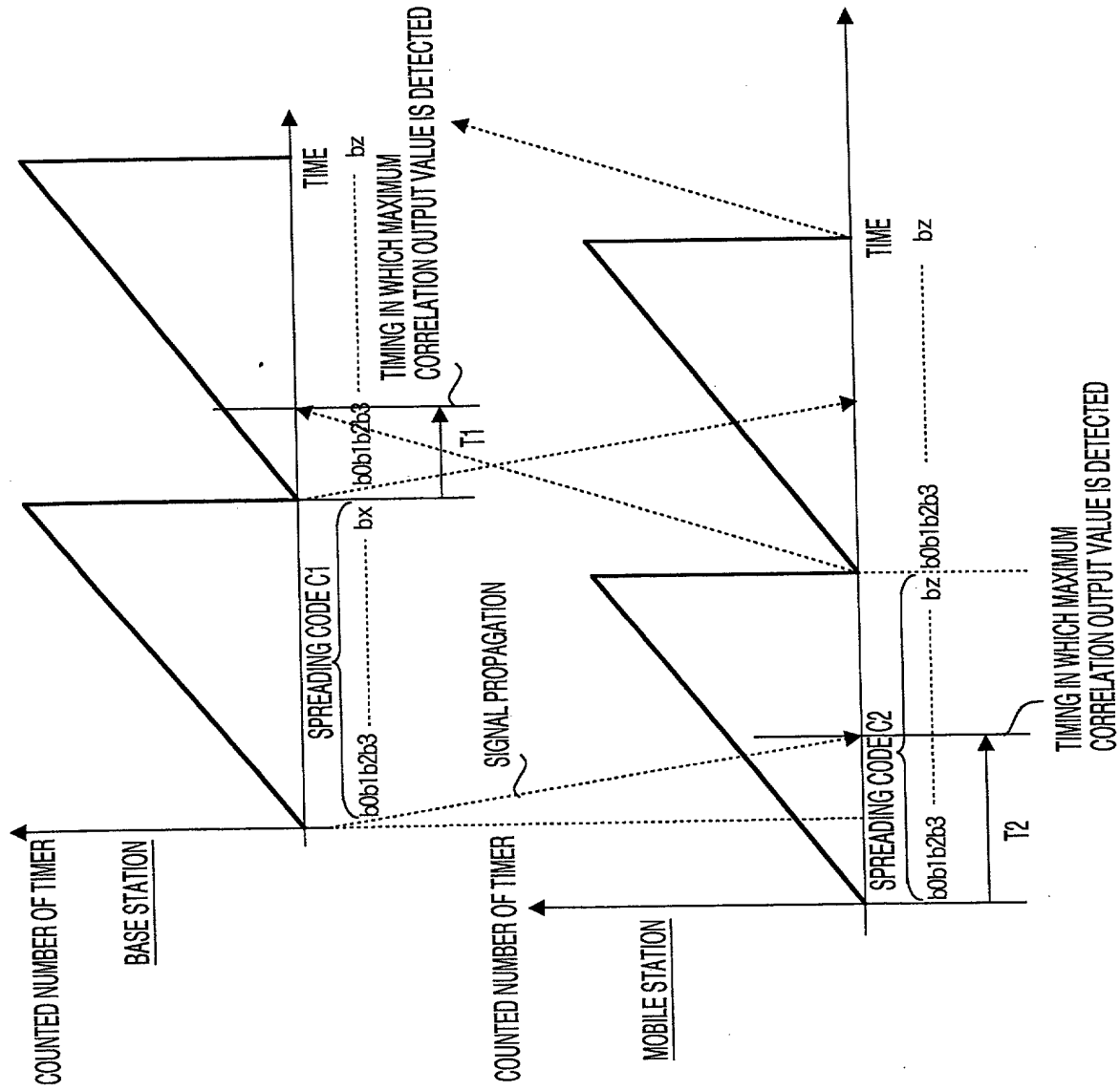


FIG. 2

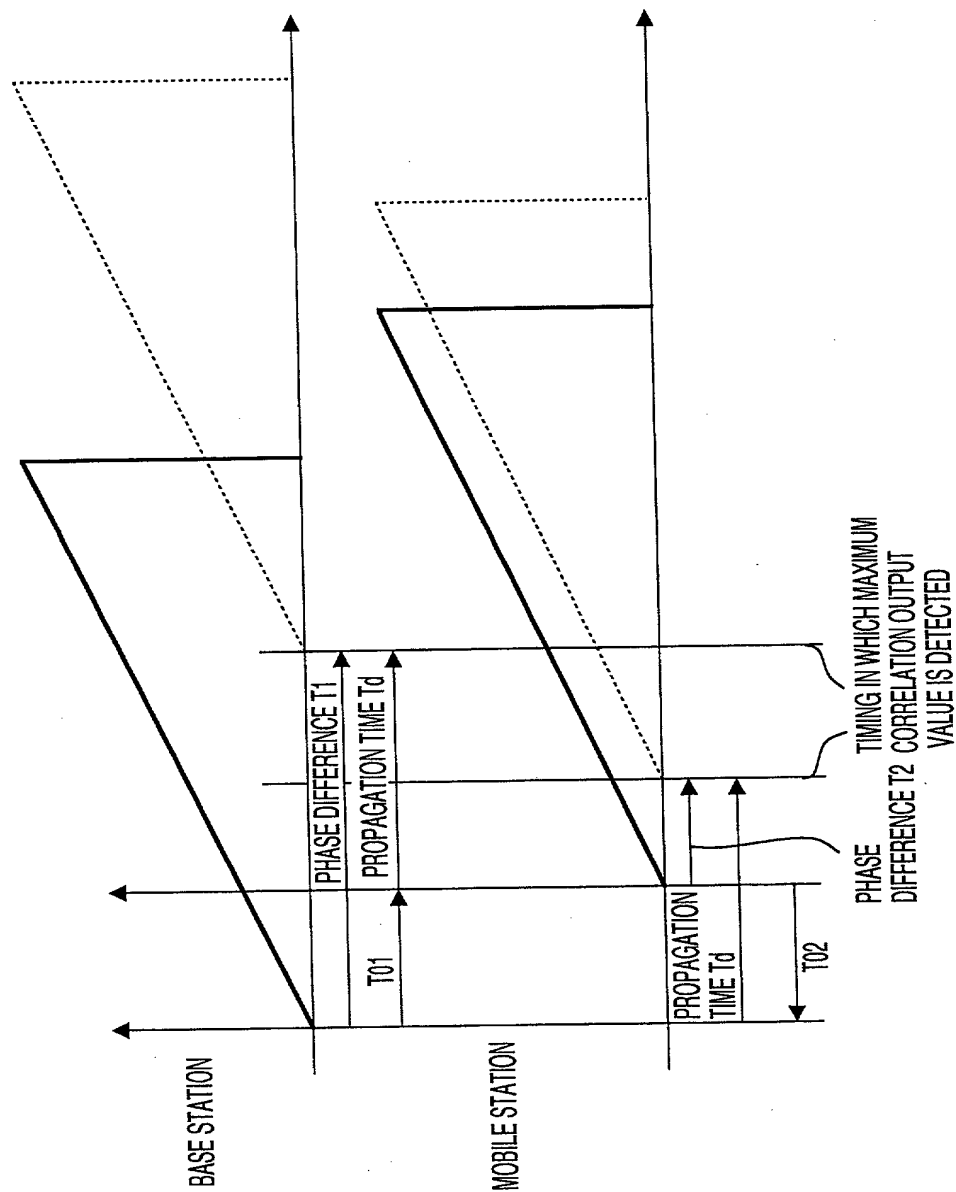


FIG. 3

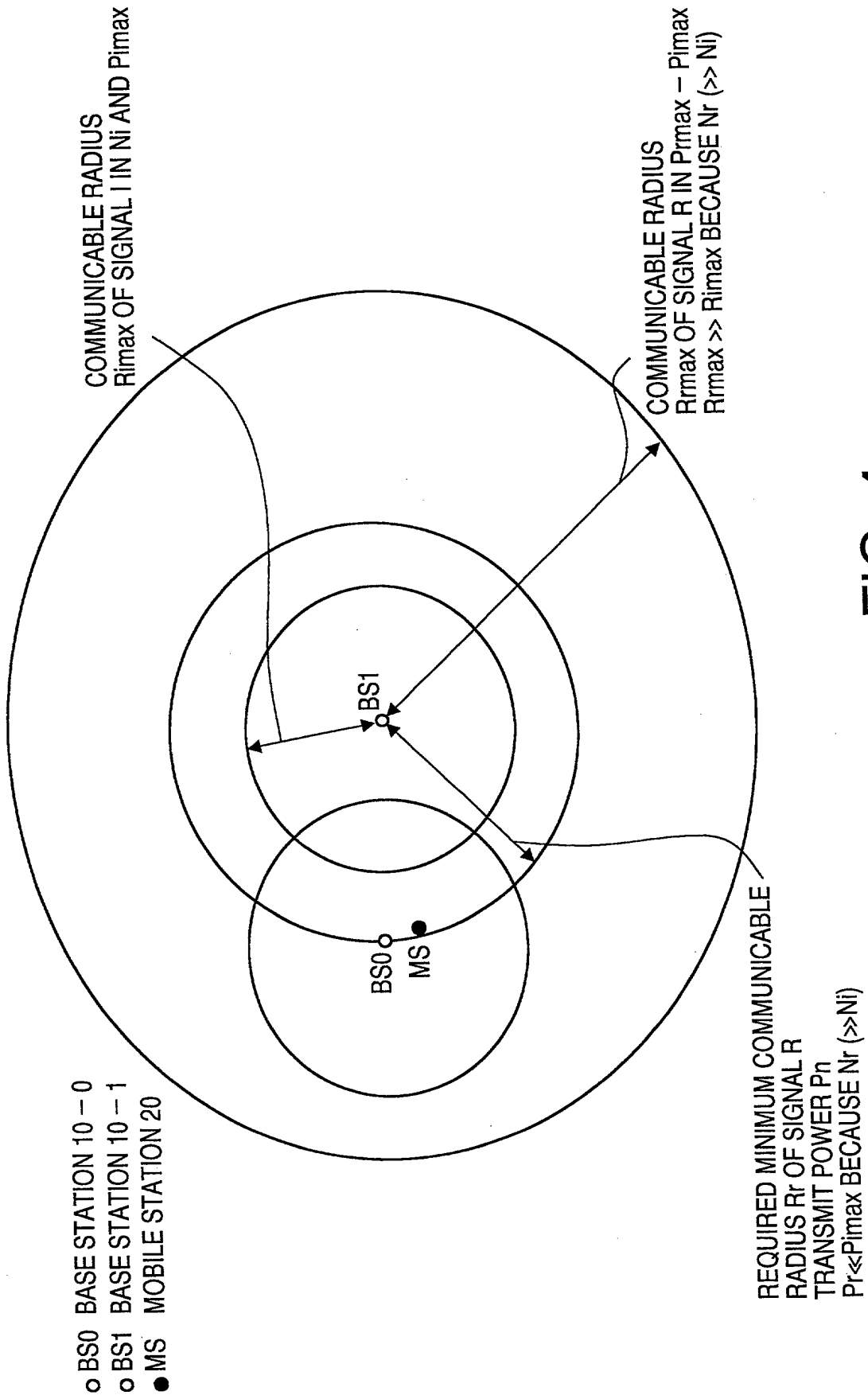
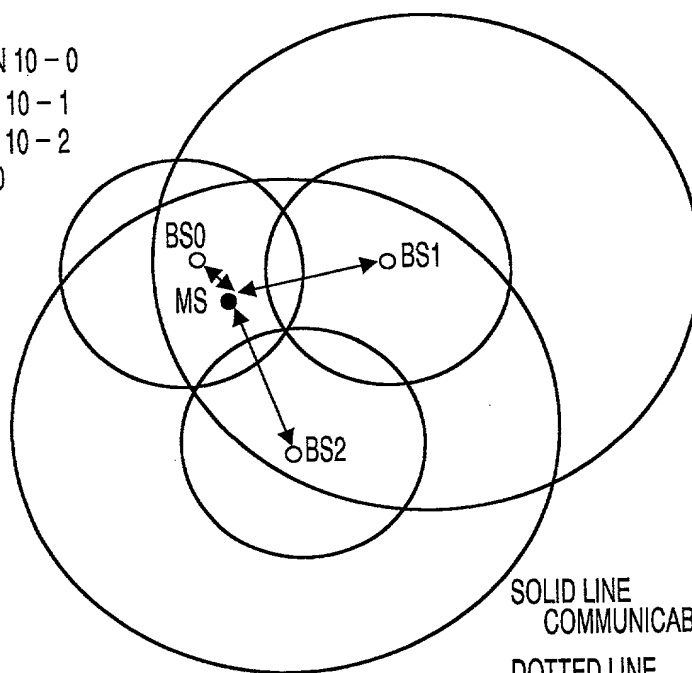


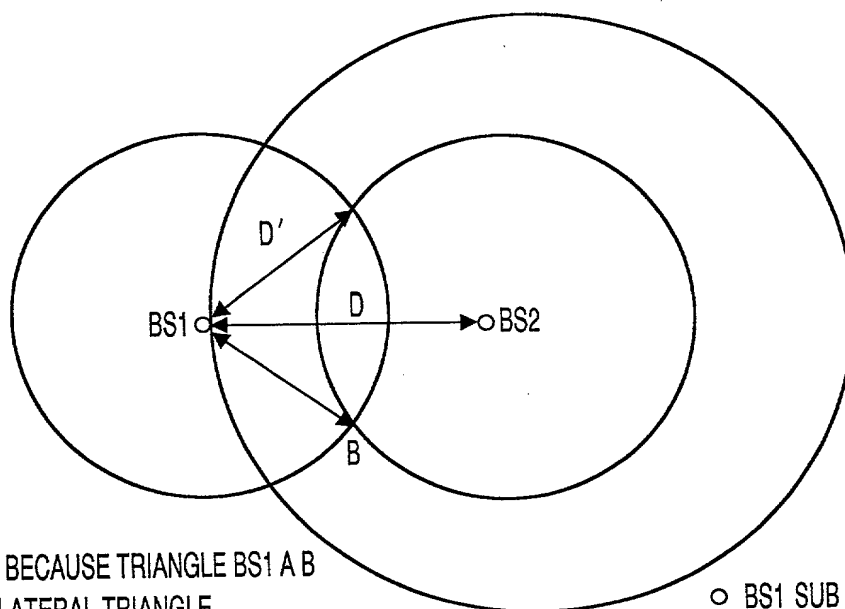
FIG. 4

- BS0 MAIN BASE STATION 10 - 0
- BS1 SUB BASE STATION 10 - 1
- BS2 SUB BASE STATION 10 - 2
- MS MOBILE STATION 20



SOLID LINE
COMMUNICABLE RADIUS OF SIGNAL I
DOTTED LINE
COMMUNICABLE RADIUS OF SIGNAL R

FIG. 5

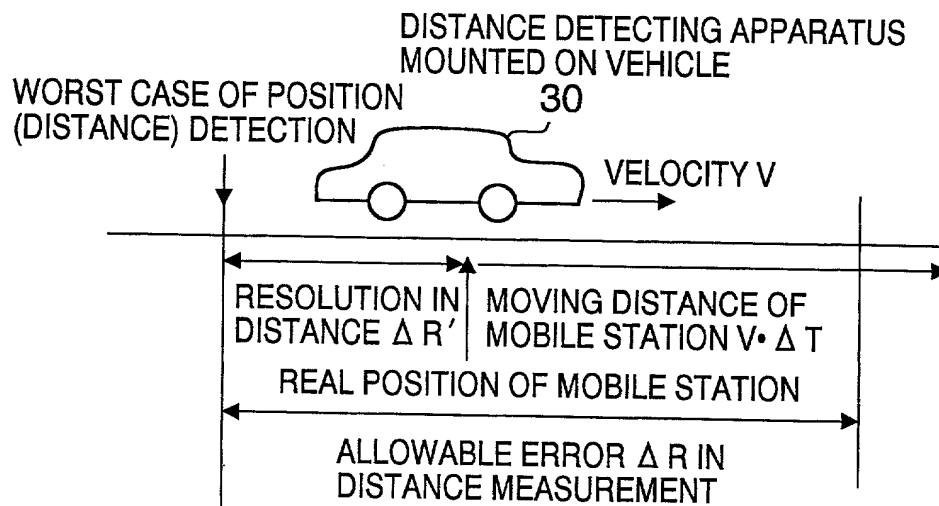


$D = \sqrt{3}D'$ BECAUSE TRIANGLE BS1 A B
IS EQUILATERAL TRIANGLE
D=DISTANCE BETWEEN
BASE STATION 10 - 1 AND 10 - 2
D' =CELL RADIUS OF BASE STATION

- BS1 SUB BASE STATION 10 - 1
- BS2 SUB BASE STATION 10 - 2

SOLID LINE
COMMUNICABLE RADIUS OF SIGNAL I (IDEAL)
DOTTED LINE
COMMUNICABLE RADIUS OF SIGNAL R (IDEAL)

FIG. 6



WHEN $\Delta T > (\Delta R - \Delta R') / V$, ERROR IN DISTANCE MEASUREMENT BY MOBILE STATION MAY EXCEED ALLOWABLE ERROR ΔR IN DISTANCE MEASUREMENT
 POSITION DETECTION SHOULD BE PERFORMED DURING PERIOD SHORTER THAN ΔT

FIG. 7